Appl. No. 10/014,716 Amdt. dated September 10, 2003 Reply to Office Action of March 10, 2003

#### **Amendments to the Drawings:**

Please replace the original 42 drawing sheets (figures 1-41) with the attached set of 47 replacement sheets of formal drawings.

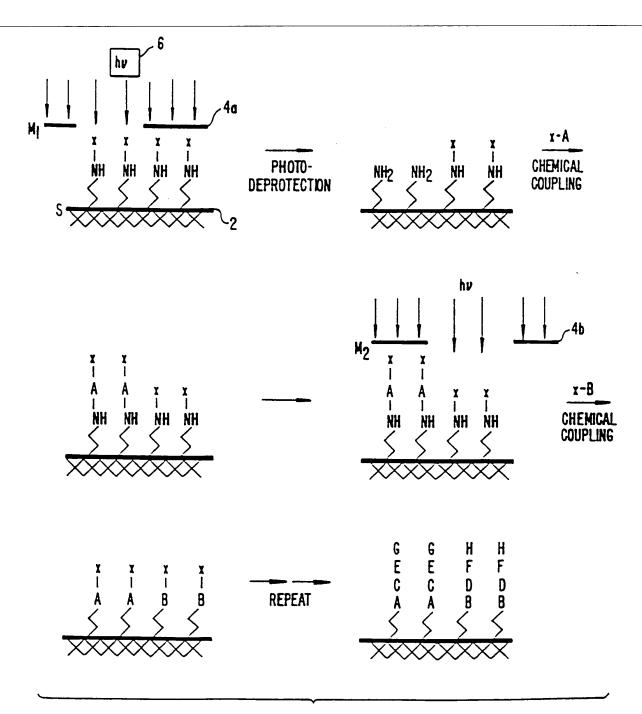


FIG. 1

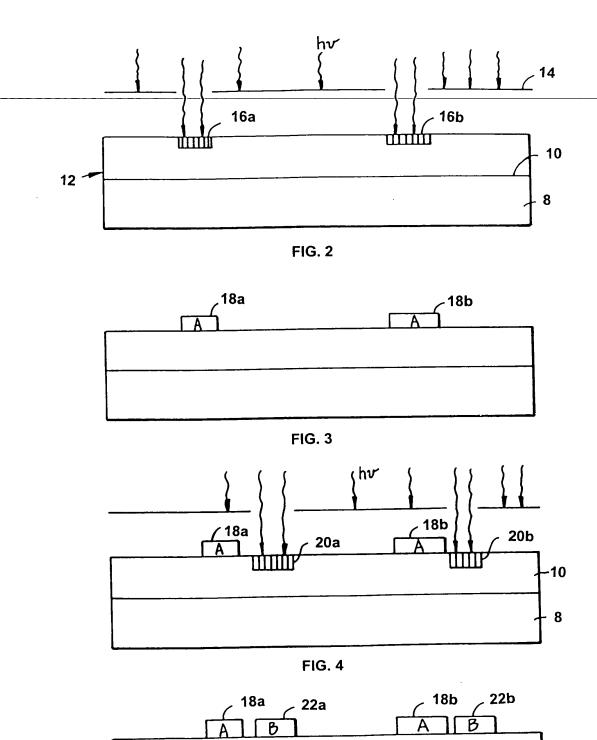
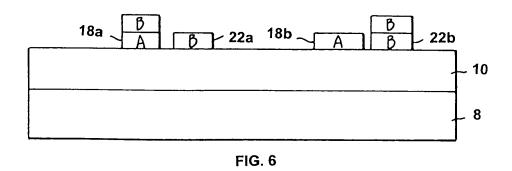


FIG. 5



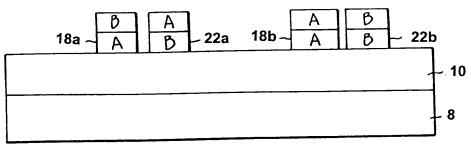
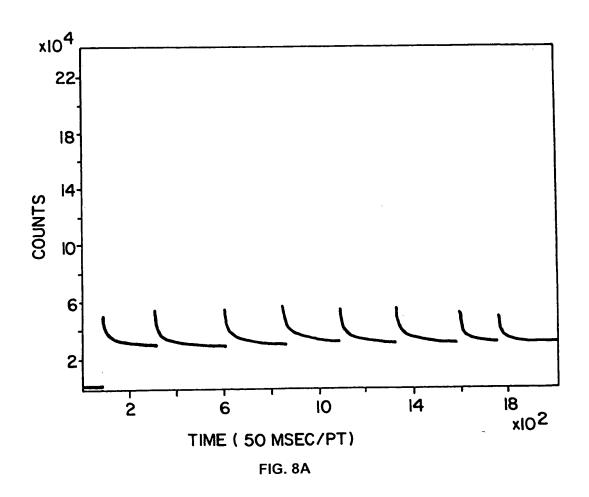


FIG. 7



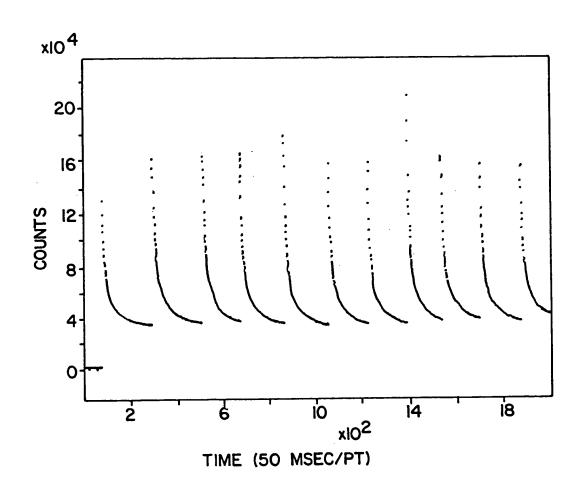


FIG. 8B

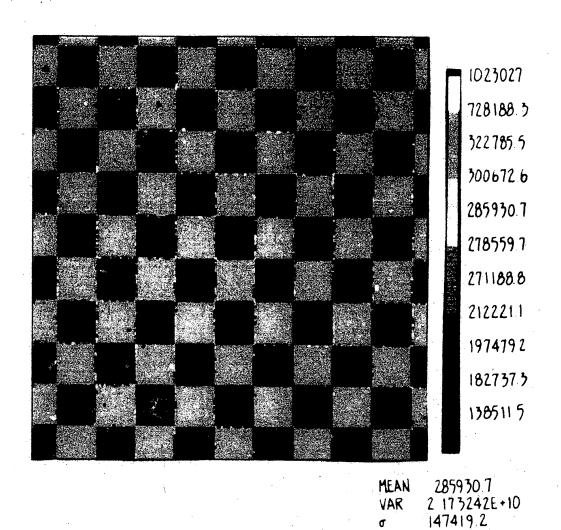
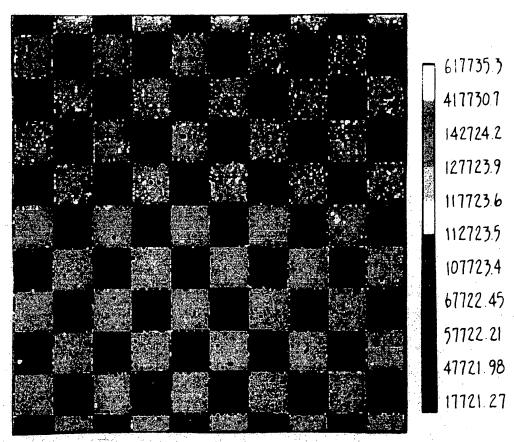
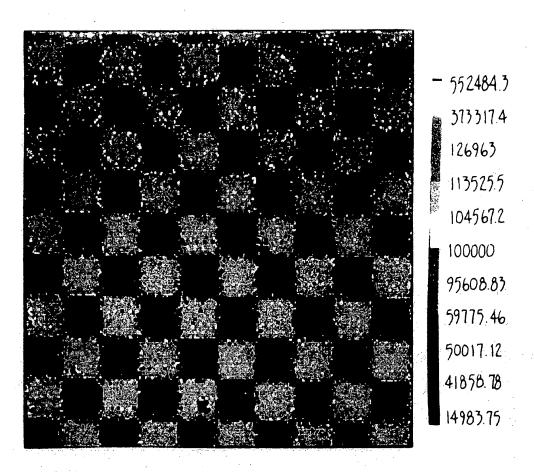


FIG. 9A



117723.6 1.000047E+10 100002.3 MEAN: VAR

FIG.\_9B.



MEAN 104567.2 VAR 8.025189E+09 σ: 89583.42

FIG.\_9C.
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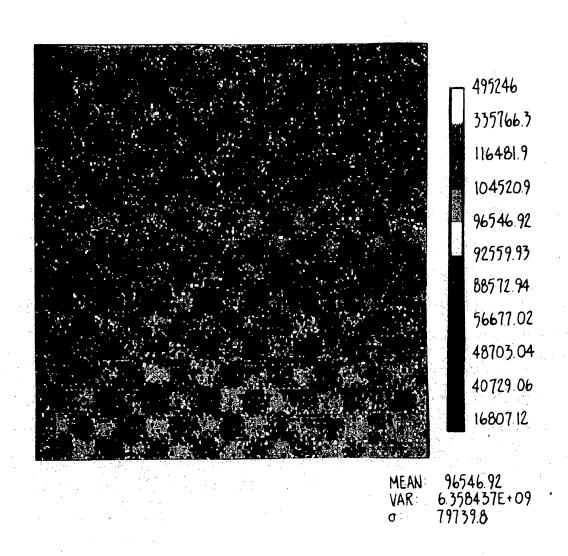
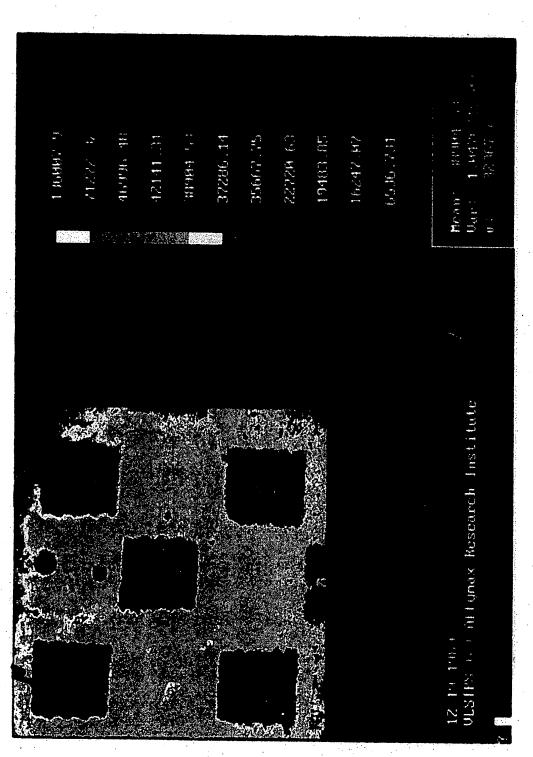


FIG.\_9D.
BEST AVAILABLE COPY



F1G. 10.

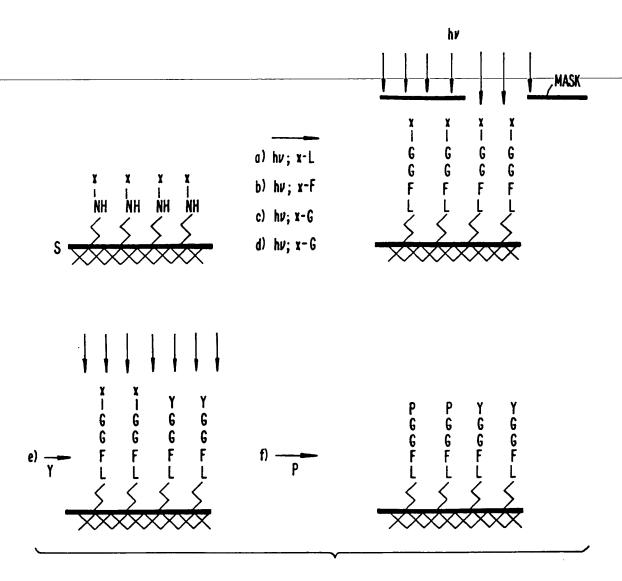
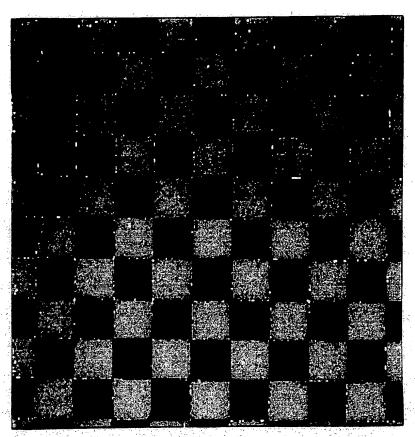


FIG. 11

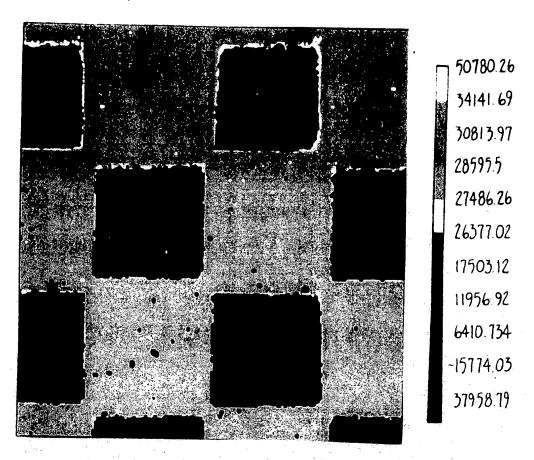


636588 4285838 142577.9 126977.5 116577.3 111377.2 106177.1 64576.25 54176.03 43775.82 12575.18

MEAN: 116577.3 VAR: 1.081645E+10 σ: 104002.1

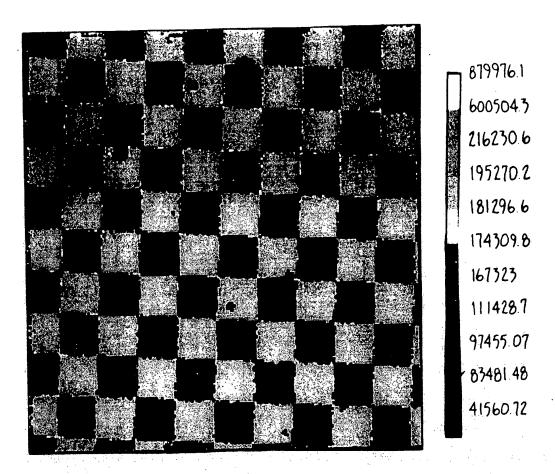
FIG.\_12.

FIG. 13A



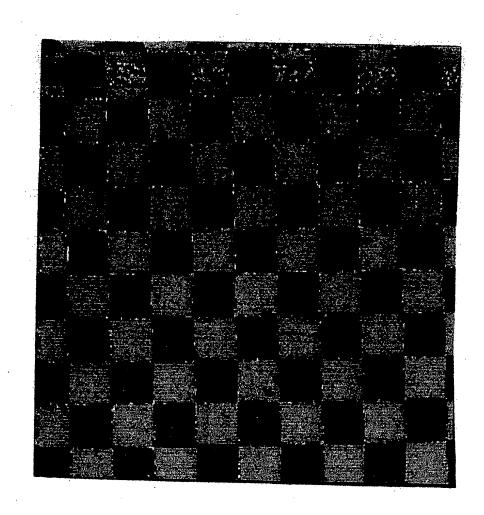
MEAN 28595.5 VAR 4.921637E+08 σ 22184.76

FIG.\_13C.



MEAN 1812966 VAR 1.952612E+10 σ 139735.9

FIG.\_13D.



6673483 453053 158397 1423249 131610.1 126252.7 1208953 78036.29 67321.52 56606.17 24462.47

MEAN: 131610.1 VAR: 1.148062E+10 σ: 107147.6

FIG. 14

P	A	5	۵		
<u>L</u> PGFL	<u>LA</u> GFL	<u>L5</u> GFL	<u>L4</u> 6FL	L	
<u>FP</u> GFL	<u>FA</u> GFL	F54FL	<u>FG</u> GFL	F	L SET
<u>WP</u> GFL	WAGFL	<u>W5</u> GFL	<u>wa</u> GFL	W	C /C1
<u>YP</u> GFL	YAGFL	<u>Y5</u> 6FL	<u>Y6</u> 6FL	Y	

FIG. 15A

	Р	a	5	4			
	<u>Yp</u> GFL	<u>Ya</u> GFL	<u>Ys</u> GFL	<u>Ya</u> GFL	Y		
	fpGFL	<u>fa</u> GFL	<u>fs</u> 4FL	<u>f</u> 44FL	f	D SET	
	wpGFL	wa GFL	<u>ws</u> GFL	<u>wa</u> afl	w	V )E1	
	YPGFL	<u>ya</u> GFL	<u>ys</u> 4FL	y66FL	Y		

FIG. 15B

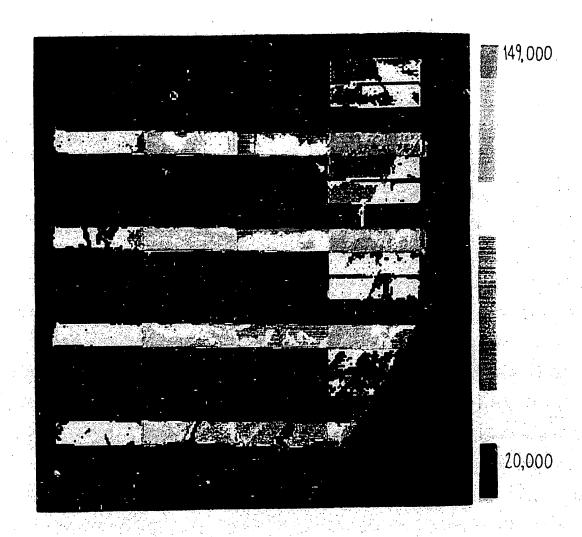


FIG.\_16.

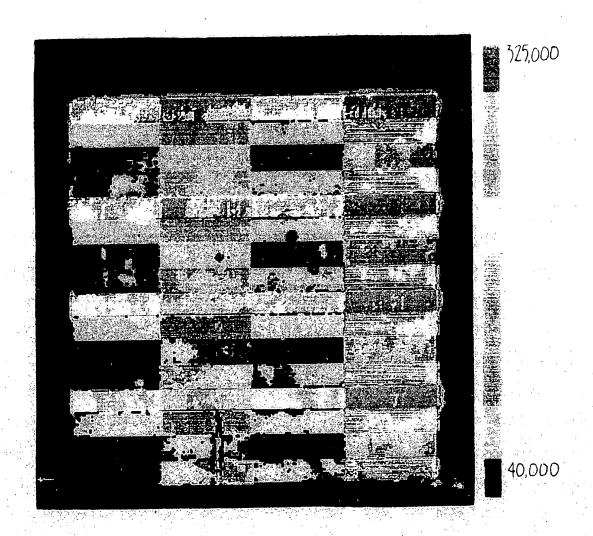
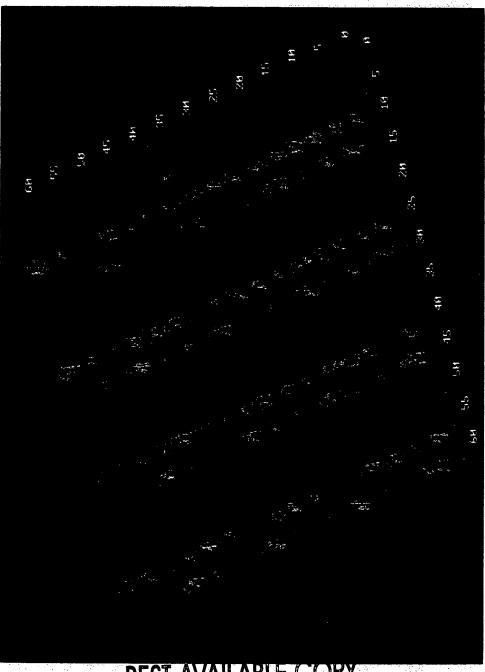


FIG.\_17.



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7/5. /Q.

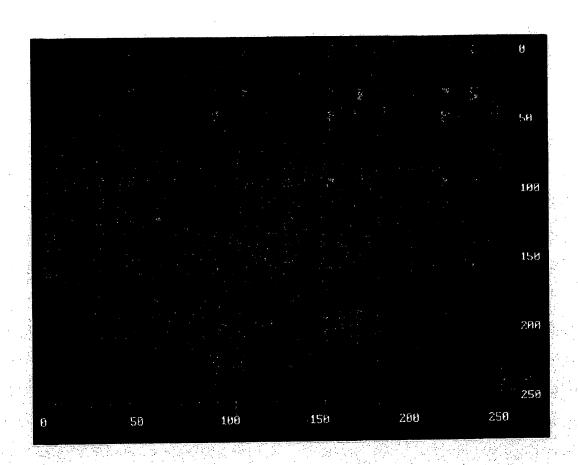


FIG. 19.

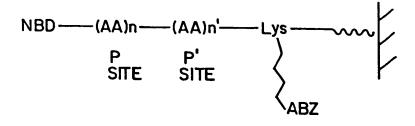
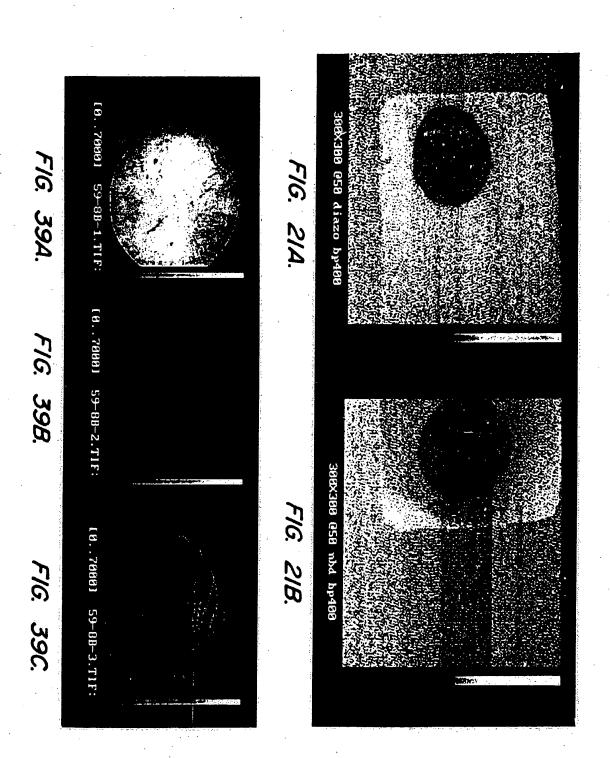
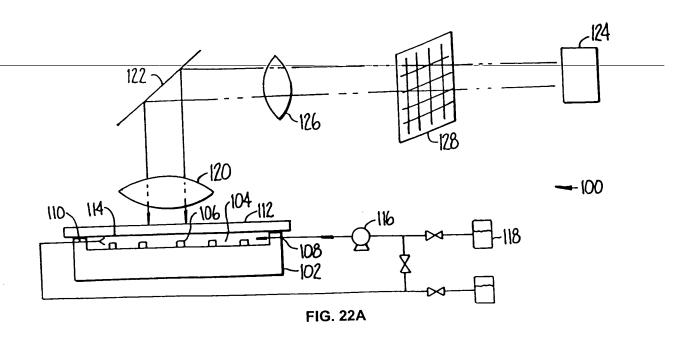


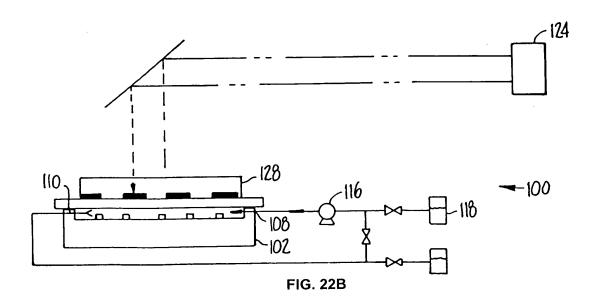
FIG. 20A

FIG. 20B



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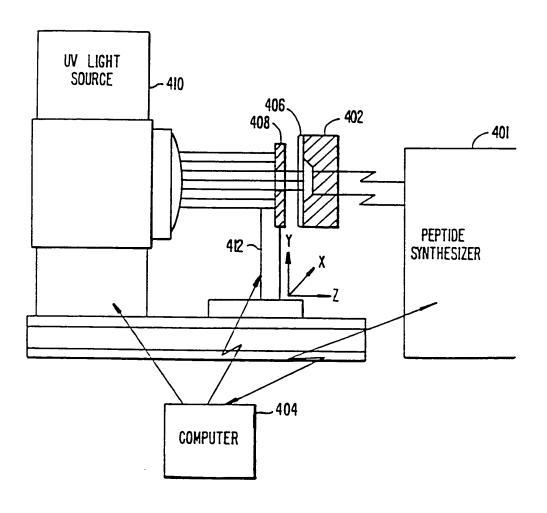
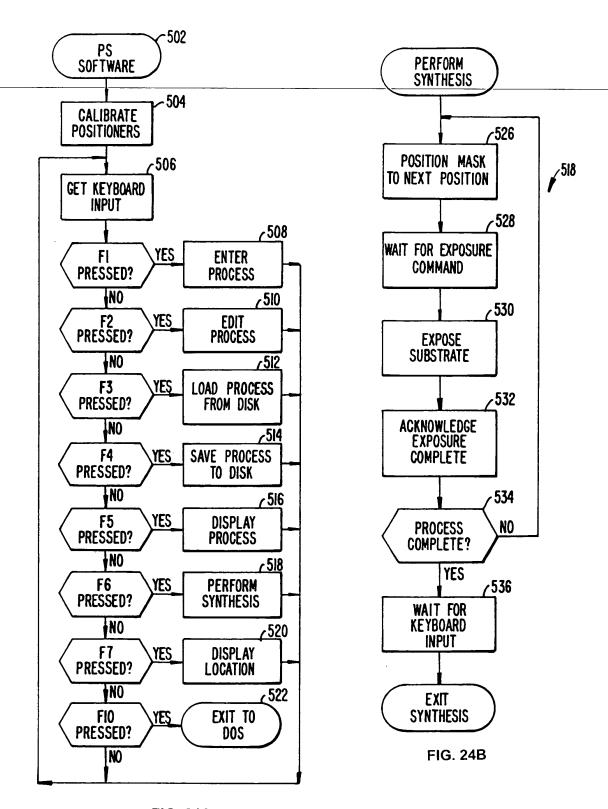


FIG. 23



**FIG. 24A** 

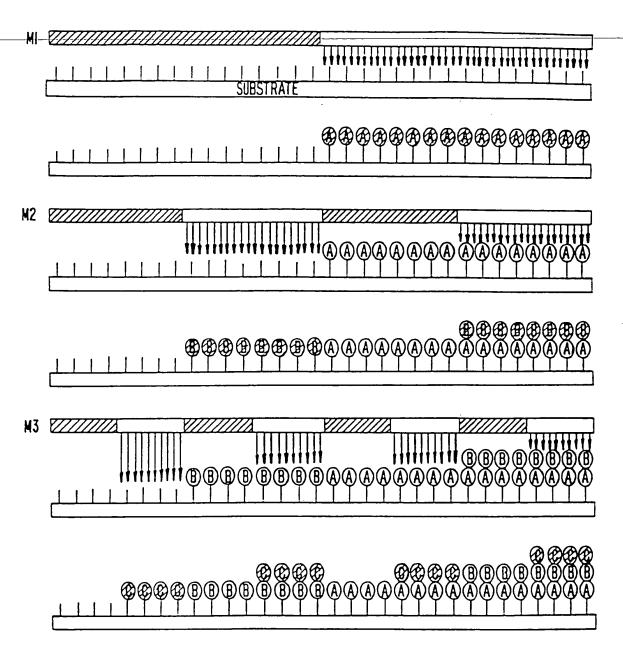


FIG. 25A

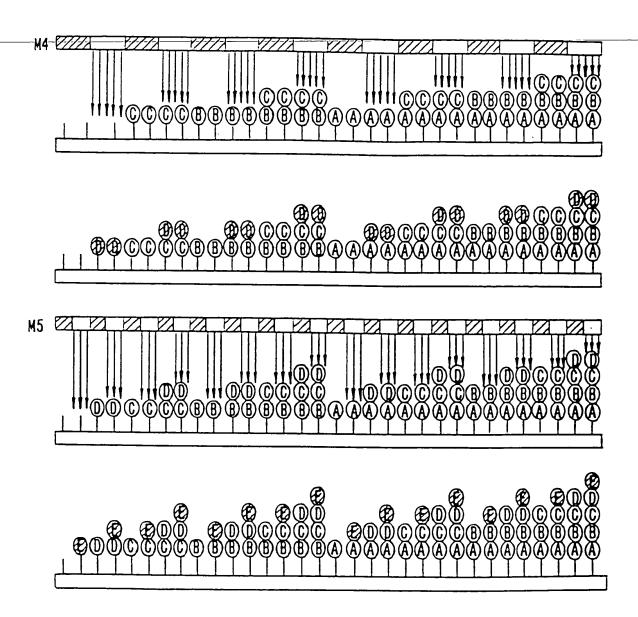
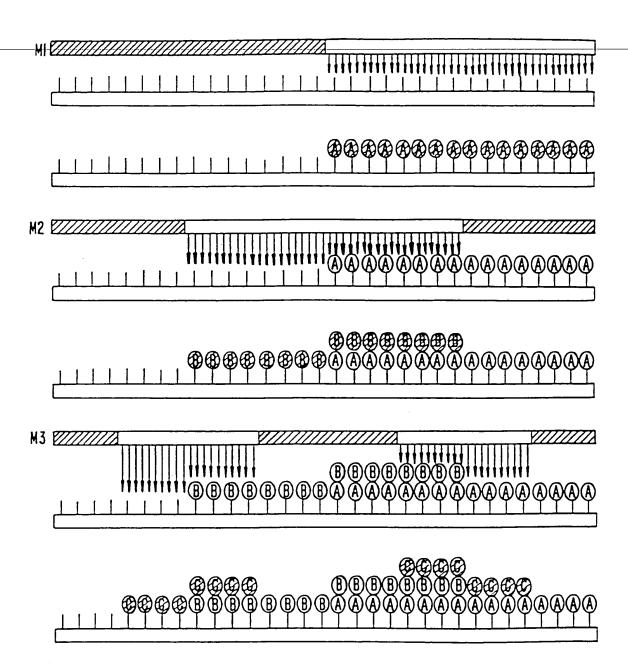


FIG. 25B



**FIG. 26A** 

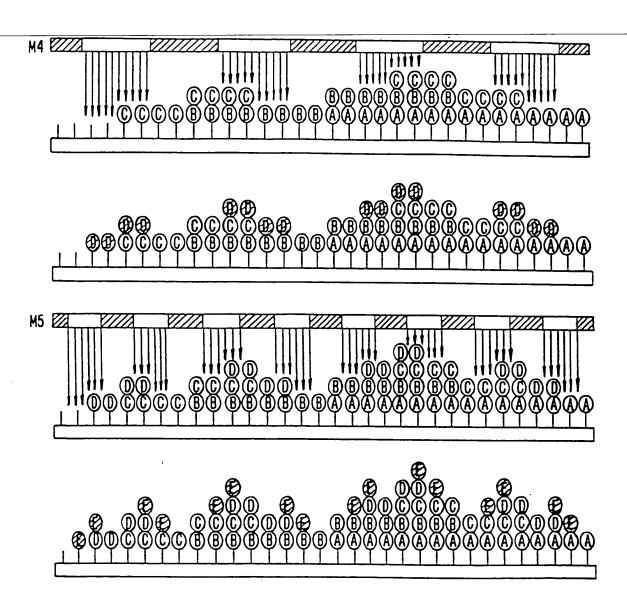


FIG. 26B

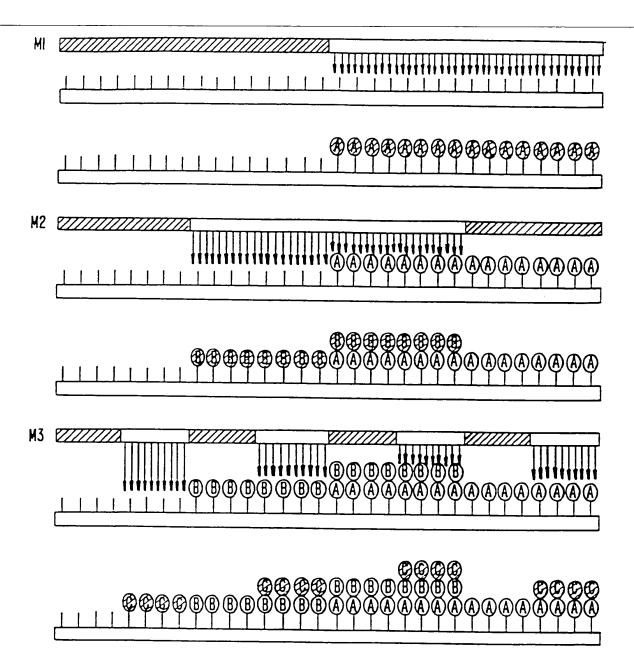


FIG. 27A

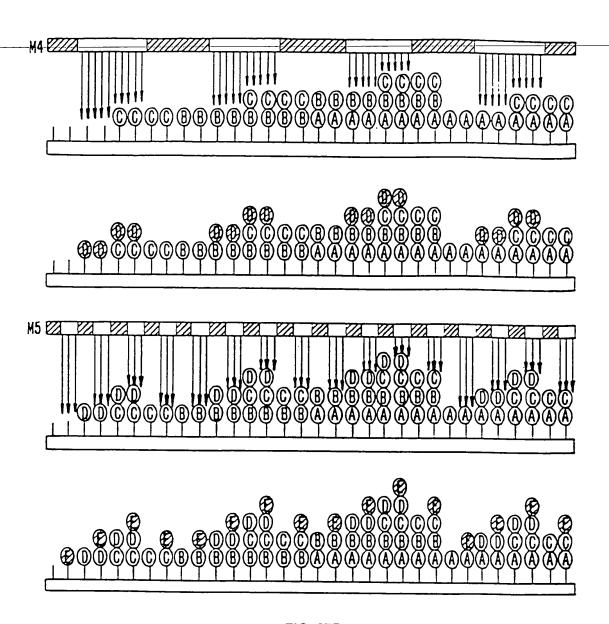


FIG. 27B

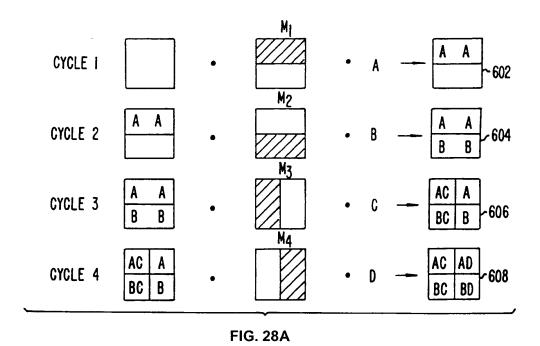


FIG. 28B

FIG. 29

(	STEP	AREA	PHOTOLYZED	MASK	COUPLE
			100%		T
	2		100%	<u> </u>	٧
	3		100%	•	٧
	4		100%	•	K
	5		50%		F
	6 TO 25		Y20	NOT	G, A, R, K, C, M, S
				OVERLAPPING	D,E,N,Q,F,H
				STEPS	W, Y, L, P, V, I, T
				"	
	26		50%		Q
	27		100%		R

#### WILL GENERATE AN ARRAY OF 4 CLASSES OF PEPTIDES:

	RXKVVT ROXKVVT	WHERE X REPRESENTS SUBSTITUTION OF AL 20 L-AMINO ACIDS	ALL
(4)	RXFKVVT		

# MOS TIEADAMARESIA

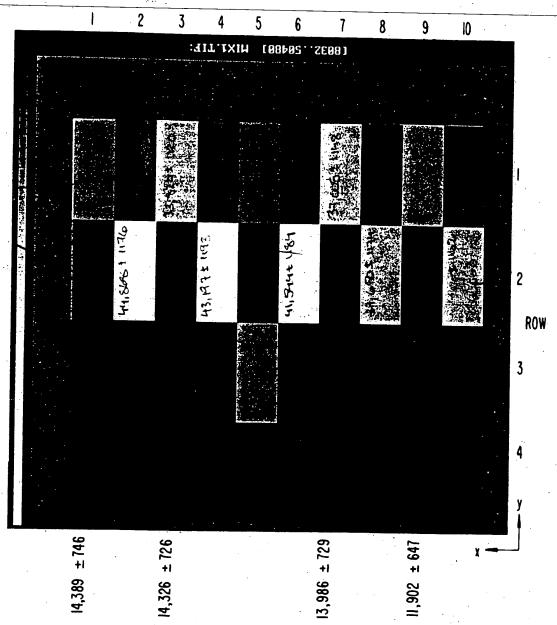


FIG. 30.

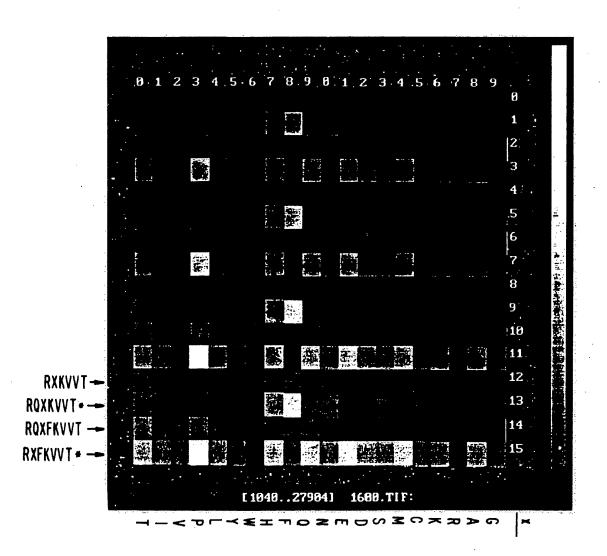


FIG. 32.

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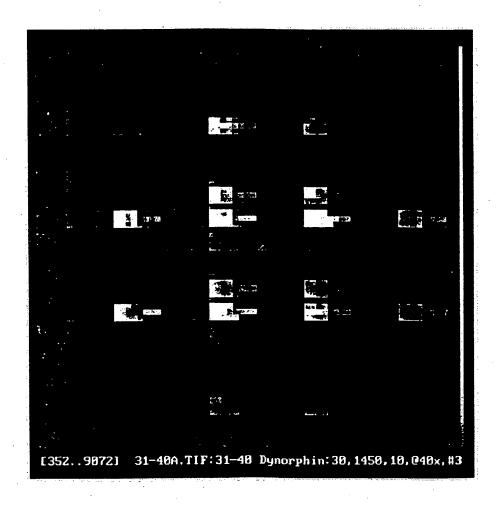
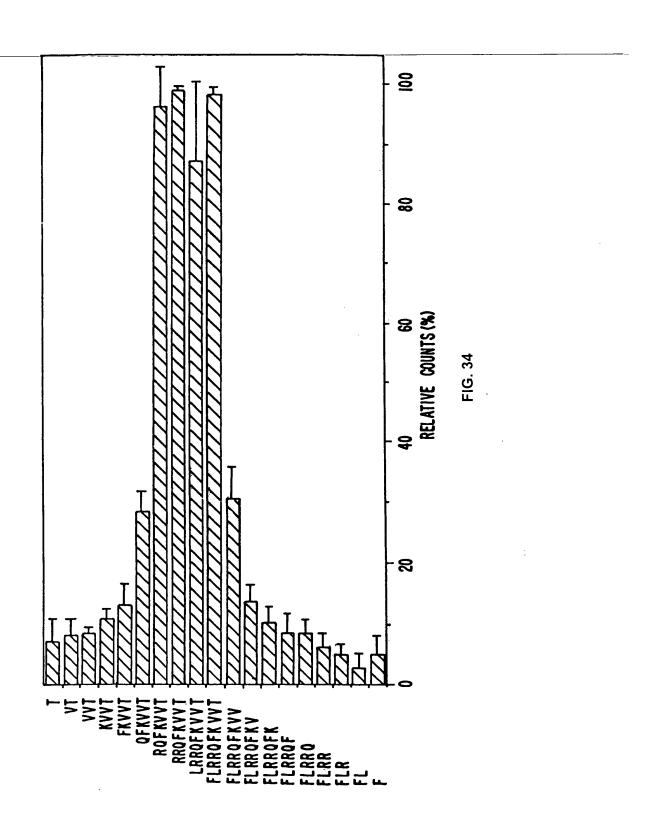


FIG. 33.



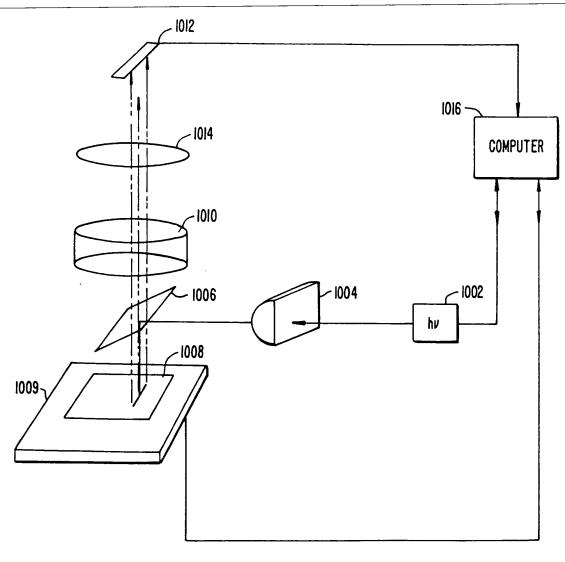


FIG. 35

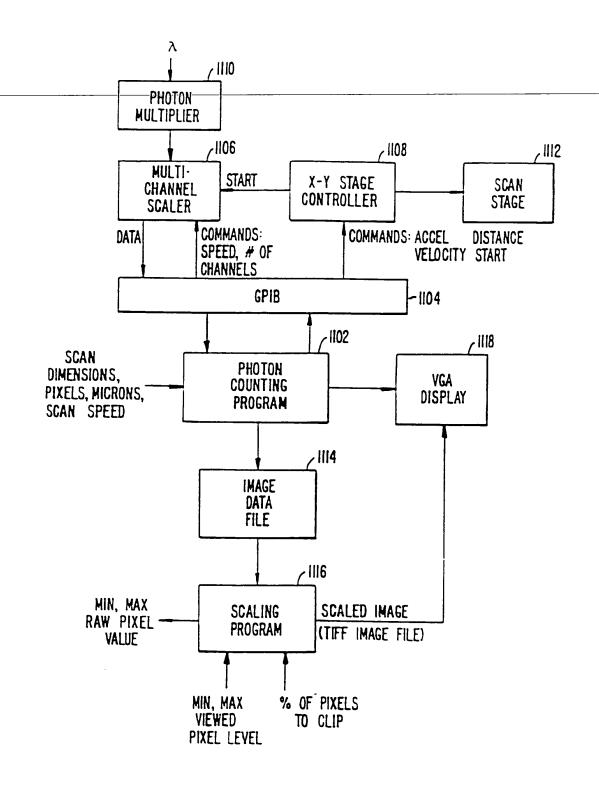


FIG. 36

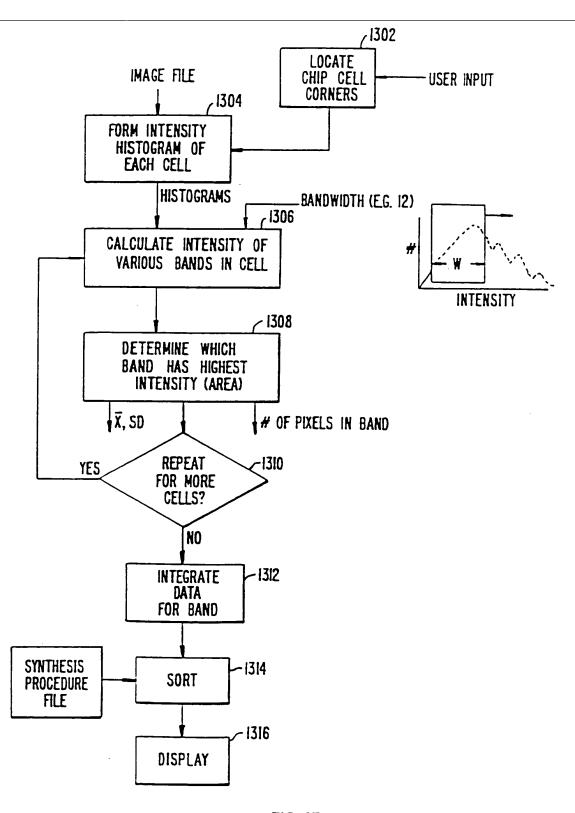


FIG. 37

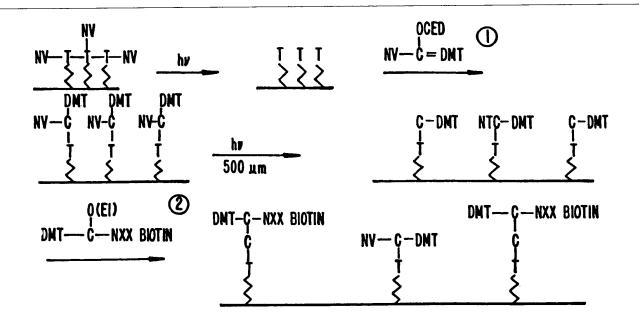
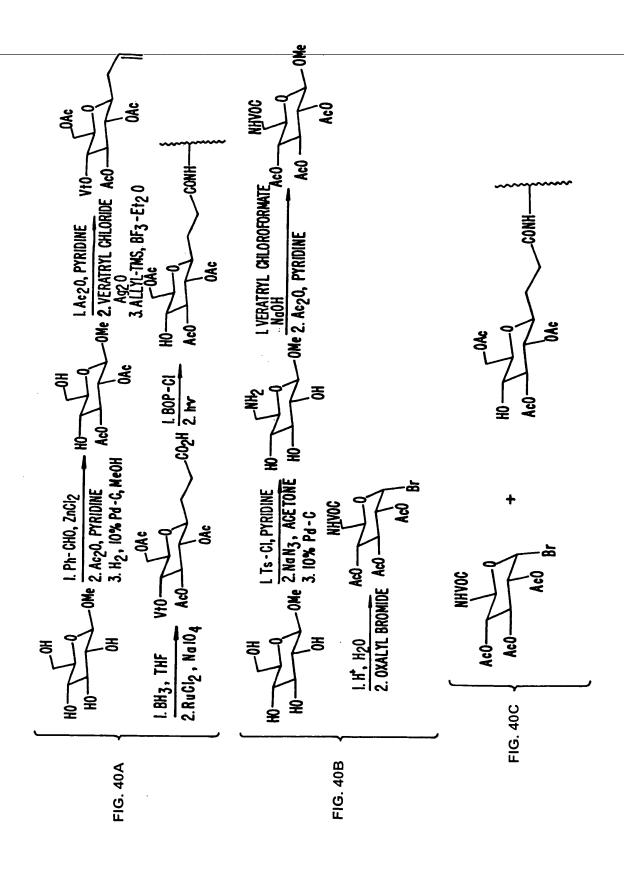
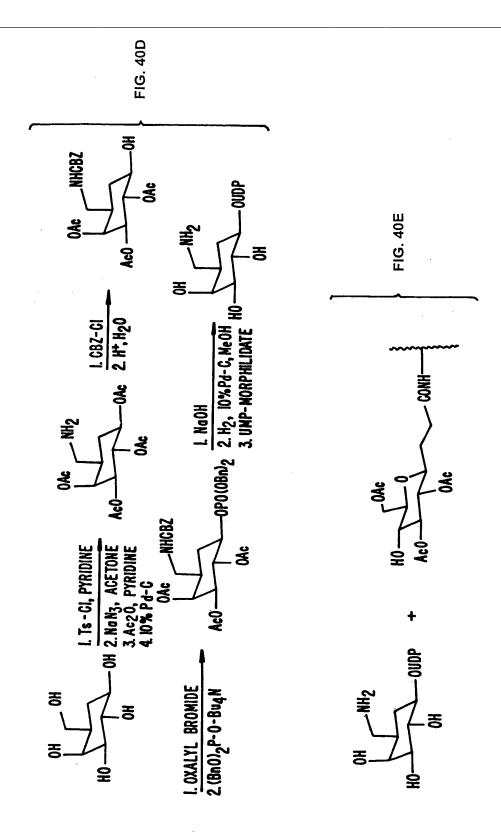


FIG. 38





WHERE R - AMINO ACID SIDE CHAIN OR OTHER DERIVATIVES R' - ALKYL

P- PHOTO LABILE PROTECTING GROUP

$$P \longrightarrow (AA)n \longrightarrow \stackrel{\downarrow}{R}" \longrightarrow H(R')$$

$$R \longrightarrow (AA)n \longrightarrow R$$